

Datasheet: ICT939

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| Description: | MAGIC RED™ CATHEPSIN K KIT |
| Name: | CATHEPSIN K |
| Format: | MAGIC RED™ (Red Fluorescence) |
| Product Type: | Kits |
| Quantity: | 25 TESTS |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|--------------------|-----|----|----------------|--------------------|
| Immunofluorescence | ▪ | | | |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Information

The Magic Red™ Cathepsin K kit uses a quick and easy method to analyze intracellular Cathepsin K protease activity in whole living cells.

Test Principle

Cathepsin Magic Red™ kits measure cathepsin K protease activity by detecting active cathepsins in whole, living cells. These kits do not work by using antibodies or as an ELISA. Instead, their methodology is based on a cell-permeable and non-cytotoxic reagent which is cleaved in the presence of cathepsins to produce a fluorescent product.

The Magic Red™ reagent contains a cathepsin K target sequence peptide (LR)₂ linked to a red (Cresyl Violet) fluorescent probe.

The Cathepsin Magic Red™ kits are suitable for cells in suspension and adherent cells from many species including mammalian, insect and yeast. Different cell types, e.g. Jurkat, HL-60, THP-1, fibroblasts, UMUC-3, MCF-7 and U937 cells have also been successfully studied with these kits.

This kit can be used in fluorescence microscopy or with fluorescence plate readers using black microtitre plates.

Reagents In The Kit

Magic Red™ MR-(LR)₂ Reagent - lyophilized
 Hoechst 33342 Stain, 1 mL
 Acridine orange (AO), 0.5 mL

Instructions For Use

Instructions for use can be found at www.bio-rad-antibodies.com/uploads/IFU/ICT939.pdf

References

1. Azuma, K. *et al.* (2007) Two osteoclastic markers expressed in multinucleate osteoclasts of goldfish scales. [Biochem Biophys Res Commun. 362 \(3\): 594-600](https://doi.org/10.1007/s12267-007-9000-0).

2. de Vrieze, E. *et al.* (2010) ALP, TRAcP and cathepsin K in elasmoid scales: a role in mineral metabolism? [Journal of Applied Ichthyology. 26 \(2\): 210-3.](#)

Storage

Store the unopened kit (and each unopened component) at +4°C until the expiration date. Protect the MR-(LR)₂ reagent from light at all times.

Once reconstituted, the 260X MR-(LR)₂ stock should be stored at -20°C protected from light.

Guarantee

Guaranteed until date of expiry. Please see product label.

Acknowledgements

Magic Red™ is a trademark of Immunochemistry Technologies, LLC.

Health And Safety Information

Material Safety Datasheet documentation #20264 #10476 #10478 available at:
Magic Red™ MR-(LR)₂ Reagent (20264): <https://www.bio-rad-antibodies.com/uploads/MSDS/20264.pdf>
Hoechst Stain (10476): <https://www.bio-rad-antibodies.com/uploads/MSDS/10476.pdf>
Acridine Orange Stain (10478): <https://www.bio-rad-antibodies.com/uploads/MSDS/10478.pdf>

Regulatory

For research purposes only

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